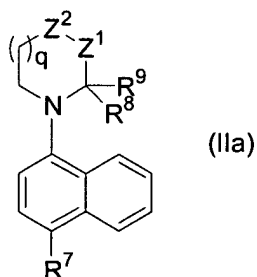


In the Claims:

This listing of claims will replace all prior versions of claims in the application.

1-6. (canceled)

7. (currently amended) A compound represented by the general formula:

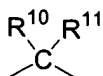


wherein R^7 represents a cyano group, a ~~nitro group~~, a halogen atom, an optionally substituted acyl group optionally substituted with 1 to 5 halogen atoms, an optionally esterified or amidated a carboxyl group or a C_{1-6} alkyl group substituted with 1 to 5 halogen atoms,

R^8 and R^9 are the same or different and each represents (1) a hydrogen atom, (2) a cyano group, (3) ~~a nitro group~~, (4) (3) a C_{1-6} alkyl group optionally substituted with a halogen atom, a hydroxy group or a C_{1-6} alkoxy group, (5) ~~a C_{1-6} acyl group optionally substituted with a halogen atom, a hydroxy group or a C_{1-6} alkoxy group~~, (6) ~~a C_{1-6} alkoxy group optionally substituted with a halogen atom, a hydroxy group or a C_{1-6} alkoxy group~~ or (7) (4) an optionally esterified or amidated carboxyl group,

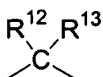
q represents 0, or 1 ~~or~~ 2,

Z¹ represents a carbonyl group, a carbon atom substituted with a hydroxyimino group or an optionally substituted C₁₋₆ alkoxyimino group, a carbon atom substituted with a C₁₋₄ alkylendioxy group or a group represented by the formula:



wherein R¹⁰ and R¹¹ are the same or different and each represents (1) a hydrogen atom, (2) a halogen atom, (3) a cyano group, (4) a nitro group, (5) (4) a hydroxy group, (6)(5) a C₁₋₆ alkyl group optionally substituted with a halogen atom, a hydroxy group or a C₁₋₆ alkoxy group, (7) a C₁₋₆ acyl group optionally substituted with a halogen atom, a hydroxy group or a C₁₋₆ alkoxy group, (8) (6) a C₁₋₆ alkoxy group optionally substituted with a halogen atom, a hydroxy group or a C₁₋₆ alkoxy group, (9) (7) an amino group optionally substituted with a C₁₋₆ alkyl group and/or a C₁₋₆ acyl group or (10)(8) an optionally esterified or amidated carboxyl group, respectively, and

Z² represents an oxygen atom, a sulfur atom, SO, SO₂, a carbonyl group, a carbon atom substituted with a hydroxyimino group or an optionally substituted C₁₋₆ alkoxyimino group, an amino group optionally substituted with a C₁₋₆ alkyl group or a C₁₋₆ acyl group, a carbon atom substituted with a C₁₋₄ alkylendioxy group or a group represented by the formula:



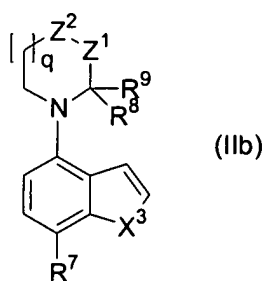
wherein R¹² and R¹³ are the same or different and each represents (1) a hydrogen atom, (2) a halogen atom, (3) a cyano group, (4) a nitro group, (5) (4) a hydroxy group, (6)(5) a C₁₋₆

alkyl group optionally substituted with a halogen atom, a hydroxy group or a C₁₋₆ alkoxy group,

~~(7) a C₁₋₆ acyl group optionally substituted with a halogen atom, a hydroxy group or a C₁₋₆ alkoxy group, (8)(6) a C₁₋₆ alkoxy group optionally substituted with a halogen atom, a hydroxy group or a C₁₋₆ alkoxy group, (9)(7) an amino group optionally substituted with a C₁₋₆ alkyl group and/or a C₁₋₆ acyl group or (10)(8) an optionally esterified or amidated carboxyl group,~~
respectively, respectively or a salt thereof,

except the case that the compound is 1-[4-(1-piperidinyl)-1-naphthyl]ethanone, 4-(1-piperidinyl)-1-nitronaphthalene, and 4-(1-piperidinyl)-1-naphthonitrile and 4-(1-pyrrolidinyl)-1-nitronaphthalene.

8. (currently amended) A compound represented by the general formula:



wherein X³ represents a sulfur atom or an oxygen atom,

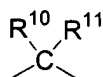
R⁷ represents a cyano group, a ~~nitro group~~, a halogen atom, an optionally substituted acyl group optionally substituted with 1 to 5 halogen atoms, ~~an optionally esterified or amidated~~ a carboxyl group or a C₁₋₆ alkyl group substituted with 1 to 5 halogen atoms,

R⁸ and R⁹ are the same or different and each represents (1) a hydrogen atom, (2) a cyano group, ~~(3) a nitro group, (4)~~ (3) a C₁₋₆ alkyl group optionally substituted with a

~~halogen atom, a hydroxy group or a C₁₋₆ alkoxy group, (5) a C₁₋₆ acyl group optionally substituted with a halogen atom, a hydroxy group or a C₁₋₆ alkoxy group, (6) a C₁₋₆ alkoxy group optionally substituted with a halogen atom, a hydroxy group or a C₁₋₆ alkoxy group or~~
(7) (4) an optionally esterified or amidated carboxyl group,

q represents 0 or, 1 ~~or~~ 2,

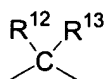
Z¹ represents a carbonyl group, a carbon atom substituted with a hydroxyimino group ~~or an optionally substituted C₁₋₆ alkoxyimino group~~, a carbon atom substituted with a C₁₋₄ alkylendioxy group or a group represented by the formula:



wherein R¹⁰ and R¹¹ are the same or different and each represents (1) a hydrogen atom, (2) a halogen atom, (3) a cyano group, (4) ~~a nitro group~~, (5) (4) a hydroxy group, (6) (5) a C₁₋₆ alkyl group optionally substituted with a halogen atom, a hydroxy group or a C₁₋₆ alkoxy group, (7) ~~a C₁₋₆ acyl group optionally substituted with a halogen atom, a hydroxy group or a C₁₋₆ alkoxy group~~, (8) (6) a C₁₋₆ alkoxy group ~~optionally substituted with a halogen atom, a hydroxy group or a C₁₋₆ alkoxy group~~, (9) (7) an amino group optionally substituted with a C₁₋₆ alkyl group and/or a C₁₋₆ acyl group or (10) (8) an optionally esterified or amidated carboxyl group, ~~respectively~~, and

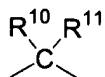
Z² represents ~~an oxygen atom, a sulfur atom, SO, SO₂~~, a carbonyl group, a carbon atom substituted with a hydroxyimino group ~~or an optionally substituted C₁₋₆ alkoxyimino group~~, an amino group ~~optionally substituted with a C₁₋₆ alkyl group or a C₁₋₆ acyl~~

group, a carbon atom substituted with a C₁₋₄ alkylenedioxy group or a group represented by the formula:



wherein R¹² and R¹³ are the same or different and each represents (1) a hydrogen atom, (2) a halogen atom, (3) a cyano group, ~~(4) a nitro group,~~ (5) (4) a hydroxy group, ~~(6) (5) a C₁₋₆ alkyl group optionally substituted with a halogen atom, a hydroxy group or a C₁₋₆ alkoxy group, (7) a C₁₋₆ acyl group optionally substituted with a halogen atom, a hydroxy group or a C₁₋₆ alkoxy group,~~ (8) (6) a C₁₋₆ alkoxy group optionally substituted with a halogen atom, a hydroxy group or a C₁₋₆ alkoxy group, (9) (7) an amino group optionally substituted with a C₁₋₆ alkyl group and/or a C₁₋₆ acyl group or ~~(10) (8)~~ an optionally esterified or amidated carboxyl group, respectively, respectively or a salt thereof,

except the case that X³ is an oxygen atom, R⁷ is a halogen atom, q is 0, R⁸ and R⁹ are hydrogen atom, Z¹ is a group represented by the formula:



wherein one of R¹⁰ and R¹¹ represents a hydrogen atom and the other represents an amino group optionally substituted with a C₁₋₆ alkyl group and/or a C₁₋₆ acyl group }, and Z² is a methylene group.

9. (previously presented) 4-[4-(hydroxymethyl)-1-piperidiny]-1-naphthonitrile, 4-[3-(hydroxymethyl)-1-piperidiny]-1-naphthonitrile, 4-[3-(hydroxymethyl)-3-methyl-1-piperidiny]-

1-naphthonitrile, 4-(2-methyl-1-pyrrolidinyl)-1-naphthonitrile, 4-(2-ethyl-1-pyrrolidinyl)-1-naphthonitrile, 4-(2-vinyl-1-pyrrolidinyl)-1-naphthonitrile, 4-(2-isopropyl-1-pyrrolidinyl)-1-naphthonitrile, 4-(3-hydroxy-2-methyl-1-pyrrolidinyl)-1-naphthonitrile, 4-(3-methoxy-2-methyl-1-pyrrolidinyl)-1-naphthonitrile, 4-(4-methoxy-2-methyl-1-pyrrolidinyl)-1-naphthonitrile, 4-[3-(hydroxymethyl)-2-methyl-1-pyrrolidinyl]-1-naphthonitrile, 4-[3-(1-hydroxy-1-methylethyl)-2-methyl-1-pyrrolidinyl]-1-naphthonitrile, 1-(4-cyano-1-naphthyl)-2-methylpyrrolidine-3-carboxamide, 1-(4-cyano-1-naphthyl)-2-methylpyrrolidine-3-carbonitrile, 4-(2-methyl-1-pyrrolidinyl)-1-benzothiophene-7-carbonitrile, 4-(3-hydroxy-2-methyl-1-pyrrolidinyl)-1-benzothiophene-7-carbonitrile, 4-(4-hydroxy-2-methyl-1-pyrrolidinyl)-1-benzothiophene-7-carbonitrile or an optically active substance or a salt thereof.

10. (canceled)

11. (withdrawn)

12. (currently amended) A pharmaceutical composition~~medicine~~ comprising an therapeutically effective amount of the compound according to claim 47 or 8 or a salt ~~or a~~ ~~prodrug thereof~~, and a pharmaceutically acceptable carrier, ~~excipient or diluent~~.

13. (currently amended) The pharmaceutical composition~~medicine~~ according to claim 12, which is an androgen receptor modulator.

14. (currently amended) The pharmaceutical composition~~medicine~~ according to claim 12, which is an androgen receptor agonist.

15-26. (withdrawn)

27. (new) An androgen receptor modulator comprising the compound according to claim 7 or 8 or a salt thereof.

28. (new) The modulator according to claim 27, which is an androgen receptor agonist.

29. (new) An agent for preventing and/or treating hypogonadism or male climacteric disturbance, comprising the modulator according to claim 27.

30. (new) An agent for preventing and/or treating osteoporosis, comprising the modulator according to claim 27.

31. (new) An agent for preventing and/or treating hormone-resistant cancer, comprising the modulator according to claim 27.

32. (new) The agent according to claim 31, wherein the hormone-resistant cancer is LHRH agonist-resistant cancer.

33. (new) The agent according to claim 31 or 32, wherein the cancer is prostate cancer.